STIC 0112

Serial Number: 10/058,580

CRF Processing Date: 3/4/2002
Edited by: _____
Verified by: _____ (STIC staff)

ENTERED

- [ ] Changed a file from non-ASCII to ASCII
- [ ] Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- [ ] Edited a format error in the Current Application Data section, specifically: _____
- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____.
- [ ] Added the mandatory heading and subheadings for "Current Application Data".
- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- [ ] Inserted colons after headings/subheadings. Headings edited included: _____
- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____
- [ ] Deleted: [ ] non-ASCII "garbage" at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as_____.
- [ ] Inserted mandatory headings, specifically: _____
- [ ] Corrected an obvious error in the response, specifically: _____
- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.
- [ ] Corrected an error in the Number of Sequences field, specifically: _____
- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- [x] Other: Seq 3- corrected spelling of "Artificial"
  _____
  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

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RAW SEQUENCE LISTING                    DATE: 03/04/2002
PATENT APPLICATION:  US/10/058,580      TIME: 18:07:44

Input Set : A:\pto.txt
Output Set: N:\CRF3\03042002\J058580.raw
```

```
 3 <110> APPLICANT: Sheppard, Paul O.
 4         Novak, Julia E.
 5         Raymond, Fenella
 7 <120> TITLE OF INVENTION: Tumor Marker Zsig62
 9 <130> FILE REFERENCE: 98-76
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/058,580
C--> 11 <141> CURRENT FILING DATE: 2002-01-28
11 <160> NUMBER OF SEQ ID NOS: 8
13 <170> SOFTWARE: FastSEQ for Windows Version 3.0
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 2334
17 <212> TYPE: DNA
18 <213> ORGANISM: Homo sapiens
20 <220> FEATURE:
21 <221> NAME/KEY: CDS
22 <222> LOCATION: (20)...(316)
24 <400> SEQUENCE: 1
25  caggtcatgt cattccaga atg tgt tgc tgg cct tct cca tgg gtg cag gga     52
26                      Met Cys Cys Trp Pro Ser Pro Trp Val Gln Gly
27                       1               5                  10
29  agc cct ggc att tgg cat ttg tgg gca gtg ttg gcg tgc cac ctg ggt    100
30  Ser Pro Gly Ile Trp His Leu Trp Ala Val Leu Ala Cys His Leu Gly
31              15                  20                  25
33  cac agc agc agc agg cag gga atc ctg aga cat cgc cct ggg gga gcc    148
34  His Ser Ser Ser Arg Gln Gly Ile Leu Arg His Arg Pro Gly Gly Ala
35          30                  35                  40
37  ctg cct tct acc cca ggc tgt aca atg acg agt act ctt gga caa aga    196
38  Leu Pro Ser Thr Pro Gly Cys Thr Met Thr Ser Thr Leu Gly Gln Arg
39      45                  50                  55
41  ccc ctc ttg caa ggc tgc gag gac atc atg gtc cag ccc gag gga gat    244
42  Pro Leu Leu Gln Gly Cys Glu Asp Ile Met Val Gln Pro Glu Gly Asp
43  60                  65                  70                  75
45  tta tct ttg att gtc ttg agt gct gca tca gct aag aca aaa acc aca    292
46  Leu Ser Leu Ile Val Leu Ser Ala Ala Ser Ala Lys Thr Lys Thr Thr
47                  80                  85                  90
49  gag tca gag gga aaa aaa acg tcc tgatgaggat tgtgcaattt ccggaccatc   346
50  Glu Ser Glu Gly Lys Lys Thr Ser
51                  95
53  atttttaaa aattataaat tatgaaatcc cacattttca atcccaattt ctggaacgtg   406
54  ttttattttg agcacagaat ggcaacatcc caggaaaaaa agtcatgctc ccattttgct   466
55  tgtaatcaag tgagctggaa ctgaccctac cccaaatatt ttttgaatag ggaaaagact   526
56  caactggacc cctctaagga ctgggagctg gcatggagct ggcatcttct gagactgact   586
57  tgagaagagc ctgataacgc ctagaggaaa caggcagggt tttgcgagca ggggaagatg   646
```

```
58  atagtgggtg ggtggggagc tggcgagggt gccccaggca gaggcaccgt gtgtgtgcaa   706
59  aggcctgcag gtggagaagg gcctgggact cttggagaat ggcaggaagt ttggtgtgcc   766
60  tgtagtctat gagccaggct cagggcagca aaggtctgtc ctgcaggtgt tgtgatgagc   826
61  tgtaccactt agtgggcacc atcaagatga acagagagta acacggtggc actgagaact   886
62  tgagaacagc tcactctaga atgaactgtg tcctccaaag tgtgcagagc caatacctag   946
63  gggtccccaa ggtgactgag cacgggcaca gatccagcag caaatccccc cagtccaaga  1006
64  gctgttcttt ccattctctg ttctttccat tctctgttct tctggtcctt ctgcttatgg  1066
65  caaggtgaaa gtcacaggtg gaattgtccc tatcacctct cccacaccct gatctccttt  1126
66  tacaacaaag agcaagcatc ctctacaaca aagcctttgg ttggtgtcag tgcctggctg  1186
67  ggaggaagta actgttgttt ttactgtgtt taatttcact cctgccgtct gttcacggca  1246
68  ccagtgatca ggttctctgc cagtgggagt gatagaaagt tacctttta aagtaaattt  1306
69  cttggaacgc aaaaaacaag ccaagttaaa taaaaataca aaatatgggg ccaggcgcgg  1366
70  tggctcgtgc ctgtcatccc agcactttgg gaggctgaga cggtggatca cctgaggtca  1426
71  ggagtttgag accagcctga ccaacaaggt gaagcccgt ctctactaaa aatacaaaaa  1486
72  ttagccgggc gtggtggcag gcacctgtag tcccagctac tcgggaggct gggacagagg  1546
73  aattgcttga acccgggagg cggaggttgc agtgagccga gatcacgcca ccactgcact  1606
74  ccagcctggg tgacggagcg agatgccatt tcaaaacaaa aacaaaatat gtactggtac  1666
75  cagtacacag taggaaggtg ggcaaaactt gggaaggggg atattcaaag gacaggtttt  1726
76  gggaaatgct ggatcaaggt cggggaagaa ggagaactga gaggctgtta taatttagag  1786
77  aagtgcttct cagagtgggg gccagcagcc aggcgccgtg gctcatgcct gtaaccttaa  1846
78  cactttggga ggtctaggcg ggaggattgc ctgagcccag gagttcgagt ccagcttgtg  1906
79  caacatagtg agatgctgtc tctacaaaaa atttaaaaat tagctggtgt cctctcagtg  1966
80  tgtcttgtcc tctccatgtt tctaaaataa aggaagaaag gcccagcgca gtggcgtaca  2026
81  cctatagtct cagcactttg ggaggccaag gtgggcagat cacttgaggt caggagttcg  2086
82  agaccagcct ggctaacatg gcaaaacctt gtttctactg gaaatacaaa aattagctag  2146
83  gcgtggtggt gcacgcctgt aatcccagct acttgggagg ctgagggagg agaaccgctt  2206
84  gagcctggga ggcagaggct gcagtgagcc aagatcacac actgcactcc agcctgggtg  2266
85  acagagcgag actccatctc aaataaataa ataaataaat aaaaataaat acataaatac  2326
86  ataaaata                                                          2334
88  <210> SEQ ID NO: 2
89  <211> LENGTH: 99
90  <212> TYPE: PRT
91  <213> ORGANISM: Homo sapiens
93  <400> SEQUENCE: 2
94  Met Cys Cys Trp Pro Ser Pro Trp Val Gln Gly Ser Pro Gly Ile Trp
95  1               5                   10                  15
96  His Leu Trp Ala Val Leu Ala Cys His Leu Gly His Ser Ser Ser Arg
97              20                  25                  30
98  Gln Gly Ile Leu Arg His Arg Pro Gly Gly Ala Leu Pro Ser Thr Pro
99          35                  40                  45
100  Gly Cys Thr Met Thr Ser Thr Leu Gly Gln Arg Pro Leu Leu Gln Gly
101      50                  55                  60
102  Cys Glu Asp Ile Met Val Gln Pro Glu Gly Asp Leu Ser Leu Ile Val
103  65                  70                  75                  80
104  Leu Ser Ala Ala Ser Ala Lys Thr Lys Thr Thr Glu Ser Glu Gly Lys
105                  85                  90                  95
106  Lys Thr Ser
108  <210> SEQ ID NO: 3
109  <211> LENGTH: 297
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/058,580

DATE: 03/04/2002
TIME: 18:07:44

Input Set : **A:\pto.txt**
Output Set: **N:\CRF3\03042002\J058580.raw**

```
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: This degenerate sequence encodes the amino acid
115         sequence of SEQ ID NO:2.
W--> 117 <221> NAME/KEY: variation
118 <222> LOCATION: (1)...(297)
119 <223> OTHER INFORMATION: N is any nucleotide.
W--> 121 <400> 3
W--> 122   atgtgytgyt ggccnwsncc ntgggtncar ggnwsnccng gnathtggca yytntgggcn      60
W--> 123   gtnytngcnt gycayytngg ncaywsnwsn wsnmgncarg gnathytnmg ncaymgnccn     120
W--> 124   ggnggngcny tnccnwsnac nccnggntgy acnatgacnw snacnytngg ncarmgnccn     180
W--> 125   ytnytncarg gntgygarga yathatggtn carccngarg gngayytnws nytnathgtn     240
W--> 126   ytnwsngcng cnwsngcnaa racnaaracn acngarwsng arggnaaraa racnwsn        297
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 23
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: PCR primer
136 <400> SEQUENCE: 4
137   ctgatgcagc actcaagaca atc                                               23
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 24
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: PCR primer
147 <400> SEQUENCE: 5
148   ggcatttgtg ggcagtgttg gggc                                              24
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 18
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: PCR primer
158 <400> SEQUENCE: 6
159   ggagctggca tcttctga                                                     18
161 <210> SEQ ID NO: 7
162 <211> LENGTH: 18
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: PCR primer
169 <400> SEQUENCE: 7
170   tccccaccca cccactat                                                     18
172 <210> SEQ ID NO: 8
173 <211> LENGTH: 16
174 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 03/04/2002
PATENT APPLICATION: US/10/058,580   TIME: 18:07:44

Input Set : **A:\pto.txt**
Output Set: **N:\CRF3\03042002\J058580.raw**

175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Peptide linker
180 <400> SEQUENCE: 8
181 Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
182   1   5   10   15

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/04/2002
PATENT APPLICATION: US/10/058,580   TIME: 18:07:45

Input Set : **A:\pto.txt**
Output Set: **N:\CRF3\03042002\J058580.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 15,18,21,27,33,36,39,42,54,60,63,66,69,78,81,87,90,93,96,102
Seq#:3; N Pos. 108,111,117,120,123,126,129,132,135,138,141,144,147,153,159
Seq#:3; N Pos. 162,165,168,171,177,180,183,186,192,210,216,222,228,231,234
Seq#:3; N Pos. 240,243,246,249,252,255,258,264,270,273,279,285,294,297